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**From:** Motter, Allan [DEP] [Allan.Motter@dep.nj.gov]  
**Sent:** 11/5/2021 8:38:20 PM  
**To:** Everett, Adolph [Everett.Adolph@epa.gov]; Dudar, Helen [helen.dudar@dep.nj.gov]  
**CC:** Steve.Maybury@dep.nj.gov; Birchfield, Norman [Birchfield.Norman@epa.gov]; Park, Andy [Park.Andy@epa.gov]; Kavvadias, Eleni [kavvadias.eleni@epa.gov]; Ferreira, Gina [Ferreira.Gina@epa.gov]; Toffoli, Greg [DEP] [Greg.Toffoli@dep.nj.gov]  
**Subject:** RE: Chemours CW Bldg 1156 VI Program Rick Calculation

Adolph, could we get the following information:

- Analytical method used for air analysis
- Copy of laboratory SOP
- Sampling procedure including volume sampled and sampling rate
- Sorbent material used in ADT tubes

Please let me know if you have any questions or need any additional information. Thank you.

Allan S. Motter, CPM, MEM  
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Bureau of Environmental Evaluation and Risk Assessment  
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**From:** Everett, Adolph <Everett.Adolph@epa.gov>  
**Sent:** Friday, November 5, 2021 3:59 PM  
**To:** Dudar, Helen [DEP] <Helen.Dudar@dep.nj.gov>; Motter, Allan [DEP] <Allan.Motter@dep.nj.gov>  
**Cc:** Maybury, Steve [DEP] <Steve.Maybury@dep.nj.gov>; Birchfield, Norman <Birchfield.Norman@epa.gov>; Park, Andy <park.andy@epa.gov>; Kavvadias, Eleni <kavvadias.eleni@epa.gov>; Ferreira, Gina <ferreira.gina@epa.gov>  
**Subject:** [EXTERNAL] FW: Chemours CW Bldg 1156 VI Program Rick Calculation  
**Importance:** High

Helen and Allan,

The attached was received earlier today. Mark Pedersen received it directly. The document was also discussed briefly during a principals call today among DEP, EPA and Chemours and subsequently provided to Alan Haymes.

Norm Birchfield will coordinate EPA's review, so please feel free to reach out to Norm directly with any questions or comments. Thanks.

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**From:** Iglesias, Ariel <[Iglesias.Ariel@epa.gov](mailto:Iglesias.Ariel@epa.gov)>

**Sent:** Friday, November 05, 2021 10:17 AM

**To:** Everett, Adolph <[Everett.Adolph@epa.gov](mailto:Everett.Adolph@epa.gov)>; Birchfield, Norman <[Birchfield.Norman@epa.gov](mailto:Birchfield.Norman@epa.gov)>

**Cc:** Schumacher, Brian <[Schumacher.Brian@epa.gov](mailto:Schumacher.Brian@epa.gov)>; Hoskinson, Carolyn <[Hoskinson.Carolyn@epa.gov](mailto:Hoskinson.Carolyn@epa.gov)>; Mitchell, Judy-Ann <[Mitchell.Judy-Ann@epa.gov](mailto:Mitchell.Judy-Ann@epa.gov)>; Sasseville, Sonya <[Sasseville.Sonya@epa.gov](mailto:Sasseville.Sonya@epa.gov)>; Mooney, Charlotte <[Mooney.Charlotte@epa.gov](mailto:Mooney.Charlotte@epa.gov)>

**Subject:** FW: Chemours CW Bldg 1156 VI Program Rick Calculation

**Importance:** High

Folks – Attached are Chemours risk calculation for Building 1156. I'd appreciate if the team can please conduct a review of this document. Please note that this document was also sent to NJDEP.

Thanks,

Ariel

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**From:** Hartten, Andrew S <[Andrew.S.Hartten@chemours.com](mailto:Andrew.S.Hartten@chemours.com)>

**Sent:** Friday, November 5, 2021 9:56 AM

**To:** Ei, Tom <[tom.ei@chemours.com](mailto:tom.ei@chemours.com)>; Mugdan, Walter <[Mugdan.Walter@epa.gov](mailto:Mugdan.Walter@epa.gov)>; Pedersen, Mark [DEP] <[Mark.Pedersen@dep.nj.gov](mailto:Mark.Pedersen@dep.nj.gov)>; Iglesias, Ariel <[Iglesias.Ariel@epa.gov](mailto:Iglesias.Ariel@epa.gov)>; Northey, Scott <[SCOTT.T.NORTHHEY@chemours.com](mailto:SCOTT.T.NORTHHEY@chemours.com)>

**Cc:** Schumacher, Brian <[Schumacher.Brian@epa.gov](mailto:Schumacher.Brian@epa.gov)>; Telford, Sheryl (she/her) A <[SHERYL.A.TELFORD@chemours.com](mailto:SHERYL.A.TELFORD@chemours.com)>

**Subject:** Chemours CW Bldg 1156 VI Program Rick Calculation

Hello All,

As promised for today, please find attached a memorandum from AECOM summarizing the updated Chambers Works Building 1156 vapor intrusion risk calculation using the SG-1 and SG-2 sub slab measurements from late July 2021, but incorporating know factors, building air exchange, attenuation from previous VI investigation, and a conservative 8 hour worker scenario. As shown on Table 5, the revised cumulative hazard quotient is 0.2.

Best regards,

Andrew

**Andrew S. Hartten**

Remediation Manager-Corporate Remediation

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**The Chemours Company**



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**From:** Ei, Tom <tom.ei@chemours.com>

**Sent:** Wednesday, November 3, 2021 4:56 PM

**To:** Mugdan, Walter <Mugdan.Walter@epa.gov>; Pedersen, Mark [DEP] <Mark.Pedersen@dep.nj.gov>; Iglesias, Ariel <Iglesias.Ariel@epa.gov>; Hartten, Andrew S <Andrew.S.Hartten@chemours.com>; Northey, Scott <SCOTT.T.NORTHEY@chemours.com>

**Subject:** Re: [EXT] Follow up from today's discussion

Dear Walter

Thank you for the notes. We look forward to understanding ORD proposed approach and further discussion on Friday. Thanks for understanding my questions on validation of the ORD approach as we develop the next steps. And, thank you setting up the call.

Take care

Tom

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**From:** Mugdan, Walter <Mugdan.Walter@epa.gov>

**Sent:** Wednesday, November 3, 2021 4:01:46 PM

**To:** Ei, Tom <tom.ei@chemours.com>; Pedersen, Mark [DEP] <Mark.Pedersen@dep.nj.gov>; Iglesias, Ariel <Iglesias.Ariel@epa.gov>

**Subject:** [EXT] Follow up from today's discussion

External email. Confirm links and attachments before opening.

Dear Tom,

Thanks for your continued engagement on the vapor intrusion issue. I thought it would be useful for me to share some notes from our conversation earlier today, including my understanding of our immediate next steps:

- Using what you indicate are more accurate or realistic building-specific data (attenuation factor, air exchange, duration of worker presence in the building) Chemours has calculated a hazardous quotient for PFOA of 0.2 using the same risk estimation approach that EPA used, and which we shared with you on October 26. You expect to be in a position to share your calculations with us by Friday, November 5.
- You have indicated that your top priority is sampling the indoor air at Building 1156. You have learned from the Bureau Veritas lab that they have well supported methodology to perform such sampling for the 6:2 fluorotelomer alcohol (FTOH), PFOA, PFOS and PFHA, but that you are waiting to confirm the lead time that lab would need. We understand you have confirmed that Eurofins Air Toxics can provide a more comprehensive data set but have indicated that mobilization to conduct such sampling would take 3 to 4 weeks; we can assume that receipt of results would take an additional 1-2 weeks. If Bureau Veritas would not be able to carry out the sampling and analysis in a frame comparable time to Eurofins, you would proceed with Eurofins; if Bureau Veritas has comparable scheduling you will quickly make a decision about which lab to use. (I respectfully suggest that you finalize that decision by November 8; let me know if you don't think that's possible.)
- We are in agreement that conducting further sub-slab vapor sampling, using both a filtered and unfiltered collection process, could provide useful information about the amount of contribution (if any) of particulate-bound PFAS to the reported results. ORD has indicated it is prepared to conduct such comparative sampling, and you have indicated you are open to that. However, you have also advised that Chemours seeks a clear understanding of the methodology and its reliability. We agree this is important, and we understand the technical team will be meeting tomorrow to discuss this.

- It's my understanding that Andrew Hartten and Ariel Iglesias, from our respective teams, are in agreement that it makes sense to do sub-slab and indoor sampling at one or more occupied buildings other than Building 1156. We expect the technical team would discuss this further as well.
- We have scheduled our next conversation for Friday, November 5 at 1 PM.

Regards,

Walter

*Walter Mugdan*  
*Acting Regional Administrator*  
*U.S. EPA Region 2*  
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